

O/PE
02 DC

Serial Number: 09/551,621

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☒ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 20/205
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 479 - inserted Hard return

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/551,621

DATE: 05/07/2000

TIME: 19:17:17

Input Set: A:\Pto.amc

Output Set: N:\CRF3\05092000\I551621.raw

4 110> APPLICANT: Xuphi, Jiang
 5 Dillon, Devin C.
 6 Hitcham, Jennifer L.
 7 Xu, Jiangchun
 8 Harlocker, Susan L.
 9 120> TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
 10 DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
 11 130> FILE REFERENCE: 210121 47005
 12 C--> 16 <140> CURRENT APPLICATION NUMBER: US/09/551,621
 13 111> CURRENT FILING DATE: 2000-04-17
 14 110> NUMBER OF SEQ ID NOS: 179
 15 115> SOFTWARE: FastSeq for Windows Version 3.0
 16 210> SEQ ID NO: 1
 17 211> LENGTH: 281
 18 212> TYPE: DNA
 19 213> ORGANISM: Homo sapien
 20 2100> SEQUENCE: 1
 21 caaatgaacat caatctctat cgaacacgtg ctctctatctt acattatggt cgtattgacct 60
 22 ctctgctctat caacatctat atctcaagtt caaatgctac aacctgaaa ccaattgacct 120
 23 caatgaagtt ctctctgaaa cgaacgtctc atattctgtt acgaattatc aattcagttt 180
 24 ctctgacatc tctttacacg attgagaaa caatgataa tctctgatt tatttacta 240
 25 caacgtctc caataagcta tgaatgctg taacacatc g 281
 26 210> SEQ ID NO: 2
 27 211> LENGTH: 300
 28 212> TYPE: DNA
 29 213> ORGANISM: Homo sapien
 30 2100> SEQUENCE: 2
 31 caatctcttg gctaacctaa tctttatta ttgttgaaa gaaagatctg caatatttt 60
 32 agattattac atactagttt atttctaat agaaccttt ttctttttac caatgataaa 120
 33 attattttc cgaagttta ttttcccttg gctgtgatac acattgattt aacaaaacata 180
 34 ctattgtatt ttttccattt ttgtttgctt atgctaccac agctatccac aggtcttata 240
 35 catactatgt ctcaactata ttatttgcaa tttttgctt taqaatgctt cgggaagagt 300
 36 210> SEQ ID NO: 3
 37 211> LENGTH: 302
 38 212> TYPE: DNA
 39 213> ORGANISM: Homo sapien
 40 2100> SEQUENCE: 3
 41 gacggagata attggttaag tctaaagaga ttattattcc ttgtattttg ctgtgtattg 60
 42 gctacaattg tgcagaggtt atacatatt gatctgata tctctatctt tttttttctc 120
 43 tttaaaaatt aattggcgc aactttattt caataaaata atttcttatt atgattgtac 180
 44 agaatgaat gaaagtgaaa atgttttctt ttggaagga agaaatttga ccatttattg 240
 45 ttgtgattt taattttata ctatctgacg acttttagta gtaataactt tttttaaact 300
 46 ta 302
 47 210> SEQ ID NO: 4
 48 211> LENGTH: 293
 49 212> TYPE: DNA
 50 213> ORGANISM: Homo sapien

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/551,621

DATE: 05/09/2009

TIME: 10:11:11

Input Set: A:\Pto.amc

Output Set: N:\CRF3\05092000\I551621.raw

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65 <100> SEQUENCE: 1
66 tqtaccacac ctttaccaca agaatatgta agaatatag ttattttat tggttttg* 50
67 tcttgaattt gttttcatc tatttttacc tatatctctt taagaacta agtatgcat 100
68 tatttcttat gatgatttg gatttgaact gactttgct tttaaccca agaatatgga 150
69 aggaatcact tctcttcaa taagagatga agcaatata ttactctt tagagagaa 200
70 gtttaagaatt gtctcttca tatataat taagaattga gtttttcaa ttt 250
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 301
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapien
75 <100> SEQUENCE: 5
76 ggaaggtttg aatcagaact ctgtgtccaa taagaactga tgaagtcatttga 50
77 ctgtgagagt taagaactga ttctattgaa ctgatttaa ttcttttga tctaatgatt 100
78 ctgtctcctt acctgtctc attttattt ataaatga ctgatttga aattttttta 150
79 caacttttaa tgaatttcat tcaattctt taatttatt gtttaagtata gtacaaata 200
80 ttctatttac ctgttctca ctgatttattt 250
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 301
83 <212> TYPE: DNA
84 <213> ORGANISM: Homo sapien
85 <100> SEQUENCE: 6
86 gaagttctat ttcttgaat tgcctgaatt attgcctact ataaatga tgaagaacct 50
87 attcaatgaa agtttaccg caccacaaa gacatgttgc ctctcctt attttgaagttta 100
88 accgaatctg ctctattgca caagatctca taccctgaaa atcattataa tccaaacaaa 150
89 gtaatacttt gtttctaaa atattttta gacataaatt tatataacaa attgatttata 200
90 ttctaagatc tcttttgaaa ctattctct ctatataca cctaaatata caatacctta 250
91 a 301
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 301
94 <212> TYPE: DNA
95 <213> ORGANISM: Homo sapien
96 <100> SEQUENCE: 7
97 gtcacgtttg taacacatga ttctttata agcggaaaag agtttccat* aaatgaat 50
98 tatatacaaa tctataacac caccaccag aggcatttgc aggttccaa aggaactgat 100
99 caacttaaaa caggatacct gaggttcat gtttttagtt gctttatct* aatcgaat 150
100 atacatttca aggtttgatt ttattttta agacatttc ctcaaatatg ttactatgg 200
101 ttaaaattaa aaacaaagt aataatata atggtcctgt ggaaggaatg acctccac 250
102 c 301
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 301
105 <212> TYPE: DNA
106 <213> ORGANISM: Homo sapien
107 <100> SEQUENCE: 8
108 ctgtctctat ctctcctaaa ttcaacttcc ttctcagagt ctctgtcacc tctgtttg 50
109 atgtctatgg aggttcatga gttgaagaa ctccaccaaa ggaagacctc aggaactgat 100
110 tgggcacaaq atgaatatit gaagatataa aattgtgtaa gggcctaaaq attgttact 150
111 ggggaaaac aaagaaagc taagctatga gaattgaatt gaattatga atgtgaata 200
112 tggctagata tctgtatct aaagaggttc tttaagaaac taattcttaa tctcttccac 250
113 a 301

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RAW SEQUENCE LISTING

PATENT APPLICATION US/09/551,621

DATE: 05/09/2000

TIME: 15:17:17

Input Set : A:\Pto.amc

Output Set : N:\CRF3\05092000\I551621.raw

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124 210> SEQ ID NO: 9
125 211> LENGTH: 301
126 212> TYPE: DNA
127 213> ORGANISM: Homo sapien
128 100> SEQUENCE: 9
129 gaggctctacc tgggtataga agcaagc ctc ggccttttc caggaatcct gaggccaggga      60
130 ctggtcattc tctggcactt gaccttcttc acctctctac atct gacaa tctctcttcc      120
131 tcttcacctt cagcaccaga cctctctctc tttctccact cttatcttc cccacacattc      180
132 ctttgcattt cagagctatg acctaacaa tttttttaa aatatttaa; taattacatt      240
133 gcaagataga tttctctggg tatagggag aacccaaca tgccttcagg tgtcttcaaa      300
134 c
135 210> SEQ ID NO: 10
136 211> LENGTH: 301
137 212> TYPE: DNA
138 213> ORGANISM: Homo sapien
139 100> SEQUENCE: 10
140 ggcacgtcca acattctct cagttctatt cgaat ttga atct ctc ggcctcttc      60
141 tcaattctct ccttccctca cgttctcatt ctttcagaaa gaatt tttt gtttatttcc      120
142 aagaaaattt ctgcacattt agcctctaaa cagctgactt gaaccacttc cttcttggtg      180
143 gtaaacactc atctccaggc ctttttgc t ccttgatcc agaat ttaa caattctatg      240
144 atttttggtg gatttgcata acttctcttc accttaatgc aaataattc cttagatttt      300
145 g
146 210> SEQ ID NO: 11
147 211> LENGTH: 301
148 212> TYPE: DNA
149 213> ORGANISM: Homo sapien
150 100> SEQUENCE: 11
151 aggtctatga ctttcaccca agaccacaga ctttcacccc cttctcattt accacacact      60
152 tctctaccca ctggaggttc t cttacag aggcacatcc cacttcttg cccccacaaa      120
153 ctttcagggg tacagcctat c aggtcatt cctctcagg gagaacaaatg ctggaa ttc      180
154 gatttgccc acacgttacc agacagtgc caattcaat ctttcagacc agagtc ggc      240
155 cagcgttttg tgacagccta tctctctcta ctttcacaaag gacctgcctc ctgtctctc      300
156 c
157 210> SEQ ID NO: 12
158 211> LENGTH: 301
159 212> TYPE: DNA
160 213> ORGANISM: Homo sapien
161 100> SEQUENCE: 12
162 gaggctatgg attacagaa cctgcaccca cactaccta attttttaa at tggacctc      60
163 aaggaactgc tctctggggc atctcaatt tccgatttgg ggtctcctac taatactctc      120
164 taagtatctg aggaattcca tccatttaa attctcttgg cttttaa t tttgttttc      180
165 ttttttctt tctctactt cttctttttt taagaatcaa ccaagacct ccttctcttc      240
166 accgaacaaag tccacactc ggaaccaccc cagtgcacag cacctctca gggacacaa      300
167 c
168 210> SEQ ID NO: 13
169 211> LENGTH: 251
170 212> TYPE: DNA
171 213> ORGANISM: Homo sapien
172 100> SEQUENCE: 13

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RAW SEQUENCE LISTING

PATENT APPLICATION US/09/551,621

DATE: 05/08/2000

TIME: 19:11:11

Input Set: A:\Pto.amc

Output Set: N:\CRF3\05092000\I551621.raw

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181 ttttttggaa taaaaaacac aatgatataa ttctctaaagc acttatatta ttataggata      60
182 gttttgggaa caagttatta tttctacat aggtaatat gaaatggctc tctatgaaaa      120
183 aatcttaag tatggactt ttctctaaa accatattt tctttttta ataataact      180
184 aaatgtatt ttttaaaag cctcatctt tgaatttcaa tatataaat gttttctta      240
185 aaatacaag attcga      300
186 210- SEQ ID NO: 11
187 211- LENGTH: 301
188 212- TYPE: DNA
189 213- ORGANISM: Homo sapien
190 100- SEQUENCE: 11
191 ggt tttat agaaagaa aaataa aa aaataggca caatggctc caactctc      60
192 atctctaac ttctctatc caagtgat tatataagac ccttggctta attcttca      120
193 tatgtatagg caagcttga caatggac ttatggaga ataggacaa tggattpa      180
194 gctccctc catggctc caatggca ttatggagt gatagaata actctc      240
195 tatgatggt caacacaa aa tttcct ataggacaa gctccct aa caatctgag      300
196 t
197 210- SEQ ID NO: 15
198 211- LENGTH: 259
199 212- TYPE: DNA
200 213- ORGANISM: Homo sapien
201 100- SEQUENCE: 15
202 gttttaaag tatttattt ttttaattt ttctctcct caagcccatc aggcactat      60
203 ctctttctc ttctctgct atcttaaaq ctgaataat cctctc tt tttggagaa      120
204 acgtagaat actaaata atactcga tatgtcttc ataaatagc aatctctat      180
205 quatagaat ctatttca taatataag tctctcag gctcccaag tatgtctt      240
206 ctaaggttc ctatggac
207 210- SEQ ID NO: 16
208 211- LENGTH: 301
209 212- TYPE: DNA
210 213- ORGANISM: Homo sapien
211 100- SEQUENCE: 16
212 caaggttgtt caattttca tata aataa actccccta agtaataat tcaaaata      60
213 aatgtatc aatgatatc ctctcttca ttgtatgta ttattattt tcaaatatt      120
214 ctgaaatac tctctaat cttctctt agaatctt ttatcttca agaaatgaa      180
215 aaactagga ccttaatt ttgggt tt cttaacttt agtttggaa ctgaaat      240
216 ttciaactt ttcccact caatggata ttatggaa caacccacac acaacacta      300
217 c
218 210- SEQ ID NO: 17
219 211- LENGTH: 301
220 212- TYPE: DNA
221 213- ORGANISM: Homo sapien
222 100- SEQUENCE: 17
223 gcccagcaag gtctagggt taatgggtt cttaacaaa ctgagggca actaaggaa      60
224 accagcaag taaggacat tttaagctt ctcaacccc caactagtt ctatccta      120
225 caagtctcc tatatgatt gaaacatta taagaaaaa atctaatcc caaatctag      180
226 acacccacac tatgtctc ttgaatcct cctcccacc caatttcaa tctgaccca      240
227 atacaaaaa cttttttaa caaatttct tcttgacaa aggttgatt ggaacacag      300
228 a
229 210- SEQ ID NO: 18

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RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/551,621
 DATE: 06/09/2009
 TIME: 19:17:17

Input Set: A:\Pto.amc
 Output Set: N:\CRE3\05092000\I551621.raw

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209 <211> LENGTH: 301
210 <212> TYPE: DNA
211 <213> ORGANISM: Homo sapien
212 <100> SEQUENCE: 18
213 attatagaaa gctgcaacaa caataaata atttttggg atgagatca aaagaaatg
214 tctctgagc atgtcaaat tggatltga ggt agaac tgaacttgc taattgattg
215 tggaaataa tcaactaaa attctttga gatttgaat tttattttt tttttttt
216 tcttctaat cctcttttt taactttaa cttttt att cctttttt cttttttttt
217 taacttctt gttgcaaac agtgcagag acctttcag gttatctaa agtttttaatt
218 a
219 <210> SEQ ID NO: 19
220 <211> LENGTH: 301
221 <212> TYPE: DNA
222 <213> ORGANISM: Homo sapien
223 <100> SEQUENCE: 19
224 agaatctca caatttat tgaatagaaa aaatttcaa cctttgtccc gat atttaatt
225 tttaactta aaagaatg agaaaccca gataaacatt ttcaattta gaggcattca
226 caaaagccac ccaatttca tctttcttg tcaaatatt atttttttat gttatgtaac
227 aaattagaa gcttttttaa gcttttcaata tttttttttt atttaagacc taacccaggg
228 ggcctaaagg taatttgcg gattttcatt aaatttgaat cctgtctagg atgcatctaa
229 a
230 <210> SEQ ID NO: 20
231 <211> LENGTH: 300
232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapien
234 <100> SEQUENCE: 20
235 aattttttt ttttttttt ttttttttt ttttttttt ttaatttat tttttttt
236 atctgtcaa aaagagcca ataaagaaat attttttt attttttt attttttttt
237 gctcttaaac tttttttt ttttttttt ccttttttt ccaacttca ccaacttct attttttt
238 ataacaggg ccaattataa aaagaaagg agggatgga ccttttttga ttttttttga
239 ccttttttga aaagagggga taacttttga taagctttt ttgaaatatt
240 a
241 <210> SEQ ID NO: 21
242 <211> LENGTH: 301
243 <212> TYPE: DNA
244 <213> ORGANISM: Homo sapien
245 <100> SEQUENCE: 21
246 aaatagttaa ctgcaaccca caattgcat atttag caa attttttgca ttatttttaa
247 tttttttt aaataaaat accagagg ttgtat attttttttgaa aaattacaaa
248 tttttttt aaatttttt ttttttttt accctttt tttttttt tttttttt
249 tttttttt aaattttt ttttttttt ttcaagaggg attttttgaa ttatttttaa
250 tttttttt aaattttt ttttttttt aggttttt ttattttt attttttt
251 t
252 <210> SEQ ID NO: 22
253 <211> LENGTH: 301
254 <212> TYPE: DNA
255 <213> ORGANISM: Homo sapien
256 <100> SEQUENCE: 22
257 aaatattat caattctgat aaagagggc ccttttttca ttttttttga ttgaaatg
258 agcaagaaa cctttttgag caagcttttt ctttttttatt ttgattttaa ttgaaattg

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
 PATENT APPLICATION US/09/551,621

DATE: 06/07/2009
 TIME: 10:17:13

Input Set : A:\Pto.amc
 Output Set : N:\CRE3\05092000\I551621.raw

Line M:310 C: Current Application Number differs. Wrong Format
 L:1841 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 81
 L:1978 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 82
 L:1979 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 83
 L:1980 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 84
 L:1981 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 85
 L:1982 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 86
 L:1983 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 87
 L:1984 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 88
 L:1985 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 89
 L:1986 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 90
 L:1987 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 91
 L:1988 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 92
 L:1989 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 93
 L:1990 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 94
 L:1991 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 95
 L:1992 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 96
 L:1993 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 97
 L:1994 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 98
 L:1995 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 99
 L:1996 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 100
 L:1997 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 101
 L:1998 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 102
 L:1999 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 103
 L:2000 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 104
 L:2001 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 105
 L:2002 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 106
 L:2003 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 107
 L:2004 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 108
 L:2005 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 109
 L:2006 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 110
 L:2007 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 111
 L:2008 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 112
 L:2009 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 113
 L:2010 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 114
 L:2011 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 115
 L:2012 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 116
 L:2013 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 117
 L:2014 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 118
 L:2015 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 119
 L:2016 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 120
 L:2017 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 121
 L:2018 M:311 W: (16) "n" or "aaa" used. for SEQ ID# 122

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/551,621

DATE: 10/20/2009

TIME: 10:11:16

Input Set: A:\Pto.amc

Output Set: N:\CRE3\05092000\I551621.raw

L1122 M:111 W: (1e) "n" or "aaa" used for SEQ ID#123
 L1121 M:111 W: (1e) "n" or "aaa" used for SEQ ID#123
 L1152 M:111 W: (1e) "n" or "aaa" used for SEQ ID#112
 L1159 M:118 W: Mandatory Feature missing (1e) not found for SEQ ID#126
 L1169 M:119 W: (1e) "n" or "aaa" used; feature required for SEQ ID#126
 L1177 M:119 W: Feature value mismatched (1e) 126 Name,Seq ID:126
 L1177 M:119 W: Feature value mismatched (1e) 126 Name,Seq ID:126